

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA2004/000907

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/82 C07K14/415 A01H5/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K A01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, Sequence Search, EMBL

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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P,X	<p>DESVEAUX DARRELL ET AL: "A "whirly" transcription factor is required for salicylic acid-dependent disease resistance in Arabidopsis" DEVELOPMENTAL CELL, vol. 6, no. 2, February 2004 (2004-02), pages 229-240, XP002300472 ISSN: 1534-5807 the whole document</p>	1-43
A	<p>-----  DESVEAUX DARRELL ET AL: "A new family of plant transcription factors displays a novel ssDNA-binding surface" NATURE STRUCTURAL BIOLOGY, vol. 9, no. 7, July 2002 (2002-07), pages 512-517, XP002300473 ISSN: 1072-8368 the whole document  -----</p>	1-43

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance  
"E" earlier document but published on or after the international filing date  
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
"O" document referring to an oral disclosure, use, exhibition or other means  
"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  
"&" document member of the same patent family

Date of the actual completion of the international search

14 October 2004

Date of mailing of the international search report

31 01 2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DESVEAUX D ET AL: "PBF-2 is a novel single-stranded DNA binding factor implicated in PR-10a gene activation in potato"</p> <p>PLANT CELL, AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS, ROCKVILLE, MD, US, vol. 12, no. 8, August 2000 (2000-08), pages 1477-1489, XP002243940 ISSN: 1040-4651 the whole document</p>	1-43
A	<p>-----</p> <p>FAGOAGA CARMEN ET AL: "Increased tolerance to Phytophthora citrophthora in transgenic orange plants constitutively expressing a tomato pathogenesis related protein PR-5"</p> <p>MOLECULAR BREEDING, vol. 7, no. 2, 2001, pages 175-185, XP002300475 ISSN: 1380-3743 the whole document</p>	
A	<p>-----</p> <p>WO 01/29074 A (DANIEL XAVIER ; ROBY DOMINIQUE (FR); CENTRE NAT RECH SCIENT (FR); LACO) 26 April 2001 (2001-04-26) the whole document</p>	
A	<p>-----</p> <p>SINGH KARAM B ET AL: "Transcription factors in plant defense and stress responses"</p> <p>CURRENT OPINION IN PLANT BIOLOGY, vol. 5, no. 5, October 2002 (2002-10), pages 430-436, XP002300503 ISSN: 1369-5266 page 431, right-hand column page 433, right-hand column - page 434, left-hand column</p>	
A	<p>-----</p> <p>ANAND AJITH ET AL: "Greenhouse and field testing of transgenic wheat plants stably expressing genes for thaumatin-like protein, chitinase and glucanase against Fusarium graminearum."</p> <p>JOURNAL OF EXPERIMENTAL BOTANY, vol. 54, no. 384, March 2003 (2003-03), pages 1101-1111, XP002300474 ISSN: 0022-0957 the whole document</p> <p>-----</p> <p style="text-align: center;">-/--</p>	

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DATABASE EMBL 11 January 2001 (2001-01-11), YAMADA K ET AL.: "Arabidopsis thaliana putative DNA-binding protein p24 (Atlg14410) mRNA, complete cds." XP002300678 Database accession no. AF332452 the whole document</p> <p>-----</p>	1-43
A	<p>DATABASE EMBL 5 July 2002 (2002-07-05), YAMADA K ET AL.: "Arabidopsis thaliana unknown protein (Atlg71260) mRNA, complete cds." XP002300679 Database accession no. AY122961 the whole document</p> <p>-----</p>	1-43

# INTERNATIONAL SEARCH REPORT

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-43

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-43

mutants of proteins having the sequences SEQ ID NOs: 1 to 4,  
uses thereof,  
methods to increase pathogen resistance using the wildtype  
proteins having the sequences SEQ ID NOs: 1 to 4  
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2. claims: 44-46

methods to increase pathogen resistance using pathogenesis  
related (PR) genes  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA2004/000907

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0129074	A	26-04-2001	FR	2800092 A1	27-04-2001
			WO	0129074 A1	26-04-2001

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